

ERNST G.A.

VALVE - EQUIPMENT AND SUNDRY

The Rover
valve - préamplifier

The logo for Ernst G.A. is a stylized, handwritten-style signature of the name 'Ernst G.A.' in black ink. The letters are fluid and connected, with a prominent 'E' and 'A'.

GUITAR AMPS & CUSTOMIZING

the Rover

'Ernst Guitar Amps & Customizing' designs and customizes tube amplifiers since 1987. This has resulted in a design in which the wishes of our customers, which we used in previous designs, are incorporated.

A 'Rover' in the Irish meaning of the word, is someone who roams about and stays wherever it suits him. This amplifier gives you metaphorically speaking the same freedom and possibility to set new boundaries.

'The Rover' is a tube-préamplifier in which the four channels are fully separated. Over the years we have 'borrowed' the ears of different guitar players, to develop the nature of the sounds.

The gain- and tonecontrol for each of the four channels of 'The Rover' are individually designed and are electronically separated from each other. This results in the possibility of making combinations of different channels without effecting the original sound of that channel. (Combinations are: A+B, A+C, B+C and A+B+C. Channel D can not be combined because it is out of phase with the other channels). The 'Bright' control of all channels is variable, adding transparent highs to the clean-sound, bite to the lead-sounds as well as influencing the distortion. For each channel the place of the gain and tonecircuits, in the signalchain, is chosen for the desired sound.

All of the channels have one thing in common: they respond to every nuance in your playing and even with the heaviest distortion you can still hear the characteristic sound of your guitar. With the volumecontrol of your guitar and the way you hit the strings you are in complete control of the tone and amount of distortion of the amplifier. Even at low volumelevels the distortion is warm and tight.

Options are: effect-mixer, VCA, footswitch. The effect-mixer enables you to connect a number of external effects to 'The Rover'. There are serial and parallel effectloops. Serial are the Pré Loop, Post Loop AB/CD, SL 1 and SL 2. Parallel are PL 1, PL 2 and the Aux input, these inputs have their own volumecontrols for mixing the incoming signal with the original dry signal. SL 2, PL 1, PL 2 and the Aux input are all stereo inputs.

The VCA controls the overall volume by means of an external pedal connected to the VCA input. The VCA is placed between the postloops AB/CD and SL 1 so that it has no effect on the decaytime of a reverb or delay unit. Because the volume is controlled internally, long signal-cables are eliminated thus preventing loss of signal.

The MIDI-interface is incorporated in 'The Rover'. Storing of channels, Pré-loop and external function in any programnumber from 1 to 127 is done by holding the switch or switches (channel combination) on the front until the corresponding led(s) have turned off and on.

'The Rover' can also be controlled with a footswitch. There are two versions. One version has five controls for the four channels and the pré-loop, while the other has three extra buttons for channel-combinations.

'The Rover' uses seven préamp-tubes.

If you need more information or if you are eager to try The Rover, don't hesitate to contact us.

Phone/fax: +31 (0)224 298 827.

Ernst Fliek.

Specifications: The Rover™ valve-préamp.

Channel configuration

Channel A	Clean
Channel B	Clean/Crunch
Channel C	Crunch/Lead
Channel D	Lead/Lead-lead

Combination of channels possible

Yes:	Channel A + B
	Channel A + C
	Channel B + C
	Channel A + B + C

Is it possible to combine channel D with A/B or C
Only if you insist

Switch logic

Manual	Switches on front of apparatus
MIDI	MIDI-interface on board

What does the MIDI-interface do

Receives programchanges and controlchanges.
Remembers what préamp-channel you would like to hear as you send a programchange.
Every channel and every combination has its dedicated controlnumber.

Power requirements

Primary	110/120VAC AC 50/60 Hz - Fuse: 1.6A	Slow Blow
	220/230 VAC AC 50/60 Hz - Fuse: 0.8A	Slow Blow

Power consumption

80 W

Frequency respons

Any guitar

Impedance

Input	1 M Ω
Returns	470 k Ω
Aux	470 k Ω
Tuner	2 k Ω
Sends	2 k Ω
Output L & R	2 k Ω

Input level

All inputs	max.	0 dBV
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Output level

All outputs	nom.	0 dBV
Output L & R	max.	18 dBV

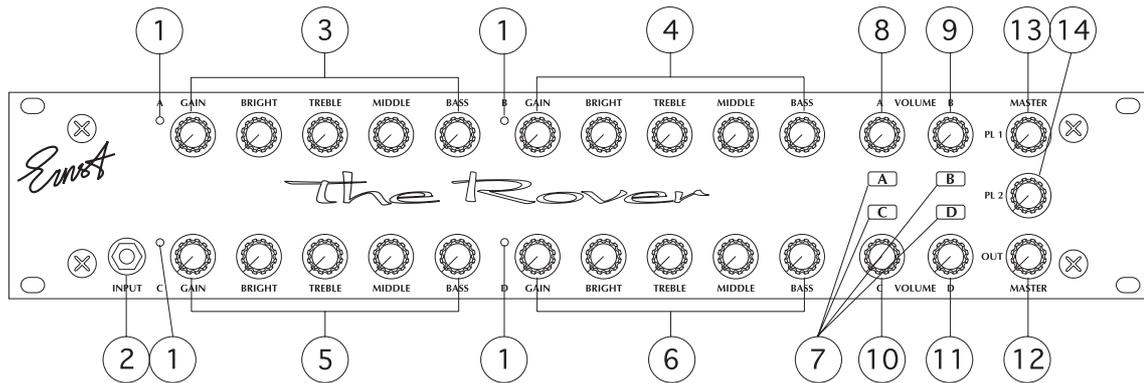
Dimensions

front	19" (Height: 2 units)
housing	17.3" x 10.8" x 3.3" (WxDxH)
weight	4 kg.

Valves

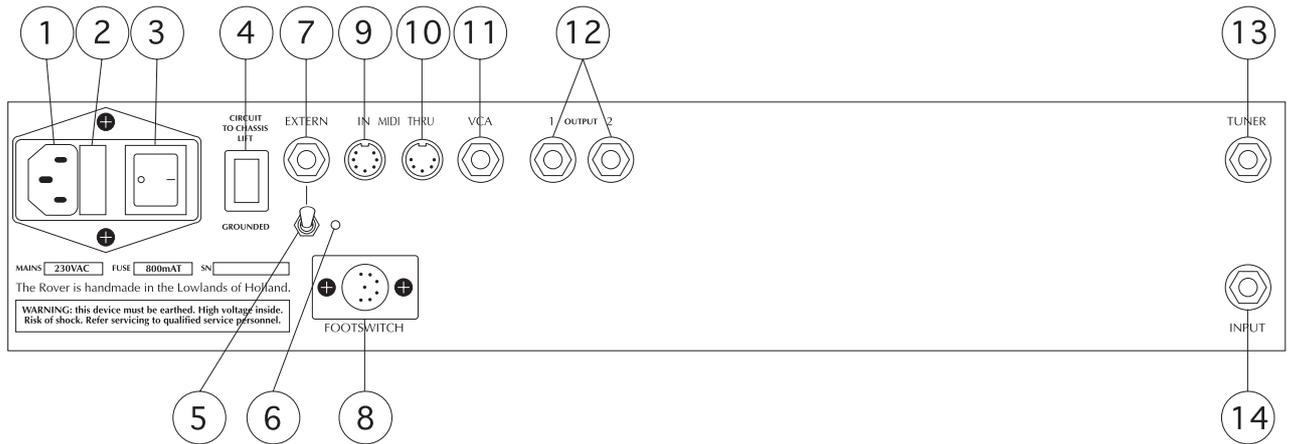
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Front panel description



1. Signal LED's
These red LED's illuminate when the corresponding channel is active.
2. Front input
Mono $\frac{1}{4}$ " input jack. The front input jack has priority over the rear input jack.
3. Channel A controls
Rotary gain and tone controls, note the variable bright control next to the gain control.
4. Channel B controls
Rotary gain and tone controls, note the variable bright control next to the gain control.
5. Channel C controls
Rotary gain and tone controls, note the variable bright control next to the gain control.
6. Channel D controls
Rotary gain and tone controls, note the variable bright control next to the gain control.
7. Channel switches
Momentary push buttons. Push a button to select a channel.
8. Level control channel A
Controls the VOLUME of channel A.
9. Level control channel B
Controls the VOLUME of channel B.
10. Level control channel C
Controls the VOLUME of channel C.
11. Level control channel D
Controls the VOLUME of channel D.
12. Master output level control
Adjusts the amount of signal at the OUTPUT jacks.
13. Master PL1
Expanded version only. Adjusts the amount of signal entering the PL1, left and right, RETURN jacks.
14. Master PL2
Expanded version only. Adjusts the amount of signal entering the PL2, left and right, RETURN jacks.

Rear panel description standard version



1. Mains receptable
Euro style mains plug.

2. Fuse holder
Holds the 20x5mm 800mA (slow blow) fuse, and a spare fuse.

3. Power switch
Toggle to switch the Rover on or off.

4. Ground lift switch
This switch provides the ability to separate chassis ground and signal ground. Normally this switch should be in the GROUNDED position. In some circumstances, moving it to the opposite, CIRCUIT TO CHASSIS LIFT, position eliminates stubborn hum and buzz problems.

5. Extern toggle switch
Momentary toggle switch. Activates or deactivates a relay which is connected to the EXTERN stereo jack. TIP = normally open. RING = normally closed.

6. Extern indicator
LED illuminates if the TIP of the EXTERN stereo jack is closed.

7. Extern jack
Stereo jack connected to a relay. This is a switching output you can use for several purposes.

8. Footswitch input
7-pin (XLR -type) input for either the RR-5 or the RR-8 remote ROVER controller.

9. MIDI in
This connector (7-pin DIN) allows the ROVER to respond to external MIDI control. Pins #1 and #7 supply power to external controllers like the EJ-101 or the NAVIGATOR. A standard 5-pin DIN cable may be used if this power feature is not required.

10. MIDI thru
This output contains all the MIDI information as it comes into the MIDI input. Normally used for daisy chaining purposes.

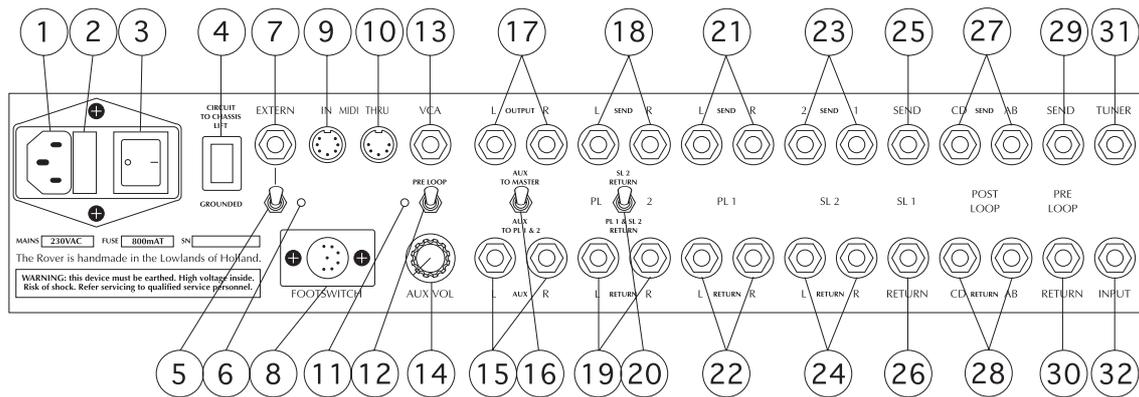
11. VCA input
Optional 1/4" stereo jack input. Connected to an appropriate (read: customized) volume pedal, the pedal controls the internal (optional) VOLTAGE CONTROLLED AMPLIFIER. This VCA then controls signal level of the ROVER.

12. Main outputs
Two 1/4" mono jacks. These outputs both carry the same signal.

13. Tuner output
1/4" mono jack. A direct output for tuner connection. This output is located just before the guitar enters the preamp.

14. Rear input
1/4" mono jack. Plug in and play.

Rear panel description advanced version



1. Mains receptable
Euro style mains plug.

2. Fuse holder
The fuse holder holds the 20x5mm slow blow fuse, and a spare fuse.

3. Power switch
Toggle to switch the Rover on or off.

4. Ground lift switch
This switch provides the ability to separate chassis ground and signal ground. Normally this switch should be in the GROUNDED position. In some circumstances, moving it to the opposite, CIRCUIT TO CHASSIS LIFT, position eliminates stubborn hum and buzz problems.

5. Extern toggle switch
Momentary toggle switch. Activates or deactivates a relais which is connected to the EXTERN stereo jack. TIP = normally open. RING = normally closed.

6. Extern indicator
LED illuminates if the TIP of the EXTERN stereo jack is closed.

7. Extern jack
Stereo jack connected to a relais. This is a switching output you can use for several purposes.

8. Footswitch input
7-pin (XLR -type) input for either the RR-5 or the RR-8 remote ROVER controller.

9. MIDI in
This connector (7-pin DIN) allows the ROVER to respond to external MIDI control. Pins #1 and #7 supply power to external controllers like the EJ-101 or the NAVIGATOR. A standard 5-pin DIN cable may be used if this power feature is not required.

10. MIDI thru
This output contains all the MIDI information as it comes into the MIDI input. Normally used for daisy chaining purposes.

11. Préloop indicator
LED illuminates when the PRELOOP is active.

12. Préloop toggle switch
This momentary toggle switch controls the PRELOOP relais.

13. VCA input
Optional 1/4 " stereo jack input. Connected to an appropriate (read: customized) volume pedal, the pedal controls the internal (optional) VOLTAGE CONTROLLED AMPLIFIER. This VCA then controls signal level of the ROVER.

14. Auxiliary control
Rotary control for leveling the signal entering the auxilliary inputs.

15. Auxilliary inputs
Accepts any signal as long as it is not from a poweramp. Use L for 2-way mono and R for 1-way mono. Use both for

16. Auxilliary input routing switch
This little smart device controls the routing for the auxilliary inputs. In the upmost position

the signal is routed directly to the MASTER OUT control. In the down position, signal is routed to the MASTER OUT and to PL1 and PL2 SEND.

17. Main outputs

Two 1/4" mono jacks. These outputs both carry the same signal.

18. PL 2 send

Two 1/4" mono jacks. Left and right send for the second parallel effect loop.

19. PL 2 return

Two 1/4" mono jacks. Use L for 2-way monaural, etcetera.

20. PL 2 send routing switch

This is another little smart thing. This switch controls signal routing to (note) PL 2 SEND. In the SL 2 RETURN position, only signal coming in to SL 2 RETURN is present at the sends. In the PL 1 & SL 2 RETURN position, a mix of these returns is presented at the jacks.

21. PL 1 send

Two 1/4" mono jacks. Left and right send for the first parallel effect loop.

22. PL 1 return

Two 1/4" mono jacks. Keep up the good work.

23. SL 2 send

Two 1/4" mono jacks. Both outputs carry the same signal for this serial effect loop.

24. SL 2 return

Two 1/4" mono jacks. Return.

25. SL 1 send

1/4" mono jack. This send is right after the optional VCA, and it's serial.

26. SL 1 return

1/4" mono jack. The Rover's return.

27. Postloop send

Two 1/4" mono jacks. One jack outputs the signal of préamps A + B, the other one of C + D.

28. Postloop return

Two 1/4" mono jacks. Corresponds to the sends.

29. Pré loop send

1/4" mono jack. Guitar level signal present. The préloop inserts any effectpedal between the guitar and the préamp or use it to connect your guitar to another préamp.

30. Pré loop return

1/4" mono jack. If nothing is plugged in it acts as a mute control.

31. Tuner output

1/4" mono jack. A direct output for tuner connection. This output is located just before the guitar enters the préamp.

32. Rear input

1/4" mono jack. Plug in and play.

The Rover™ is a product of Ernst Guitar Amps & Customizing.

Handbuilt in the Lowlands of Holland

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